



MTS Systems Corporation
Sensors Division
3001 Sheldon Drive
Cary, NC 27513
Phone 919-677-0100, Fax 919-677-0200

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For More Information Contact:
Jesse Russell, MTS Temposonics
Commerical Product Marketing
Manager
919-677-0100
jesse.russell@mts.com

Patricia Staino, BtB Marketing
PR Executive
919-872-8172
patricia@btbmarketing.com

Magnetostrictive sensors measure cooling fluid in chillers...

MTS SENSORS IMPROVE COOLING PROCESS RELIABILITY IN HEAT EXCHANGE APPLICATIONS

CARY, N.C (June 19, 2006) — MTS Systems Corp., Sensors Division's C- and G-Series sensors are now being utilized in heat exchange applications as a means of measuring and ensuring the proper amount of cooling fluid in the system. The liquid-level sensors are used to measure the level of cooling fluid in the reservoir to preserve proper levels, ensuring cooling efficiency and lowering down time. These sensors are a cost-effective solution for injection molding machine chillers and other types of plastic molding application chillers.

In a chiller, a liquid, such as a glycol and water mix, transfers process heat from the equipment via a coil or heat exchanger immersed in the liquid. A heat transfer medium, such as a refrigerant, removes heat from the liquid. The chilling liquid is held in a reservoir, which can also be where the heat exchange takes place. In the plastics industry, for example, chillers are vital in the injection molding process, where they are used to cool down the mold and equipment after the mold has been filled. MTS liquid-level sensors are ideal for this application because they include IP67 stainless steel housing, which is compatible with most cooling fluid solutions. Other housings, such as various types of plastic, are also available.

MTS Sensors Simplify Cooling Process in Heat Exchange Applications, p. 2

“MTS liquid-level sensors allow our customers to monitor the consumption of cooling fluid from the reservoir of the chiller,” says Jesse Russell, Temposonics Commercial Product Manager for MTS Sensors Division. “This technology provides a low-cost solution in a robust design that allows a small installation footprint, yet offers full stroke measurement.”

The C-Series sensor is ideal for portable and smaller stationary chiller reservoirs, particularly those used on injection molding machines, because it is low-cost and extremely reliable and rugged due to its non-contact nature. The G-Series sensors are suitable for larger chillers, and come in a rod-style industrial sensor with float. Both the C- and G-Series sensors are available in analog or digital outputs and with several housing options based on the type of cooling fluid used in the chiller.

For more information about the C- and G-Series sensors, contact Jesse Russell, MTS Sensors Division, at 919-677-2314, jesse.russell@mts.com or via the Web at www.mtssensors.com.

MTS Systems Corporation is the world leader in magnetostrictive linear-position and liquid-level sensor technology. MTS Systems Corporation is a global operation, with facilities in the U.S., Germany and Japan. In the U.S., the MTS Sensors Division has an ISO 9001 facility manufacturing rugged and reliable Temposonics position and liquid-level sensors. With a strong commitment to research and development, product quality and customer service, the Sensors Division is constantly seeking ways to bring the highest value to customers.

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To request the electronic image, call 919-872-8172, or e-mail patricia@btbmarketing.com